

INDEX TO VOLUME 105

COMPILED BY HUGH D. W. POWELL

A

- abundance, 179, 484
- Accipiter*, 474
 - cooperii*, 107, 567
 - gentilis*, 811
- Afton, A. D., *see* Rotella, J. J., 336
- age, 496
- Agelaius phoeniceus*, 453
- Ainley, D. G., G. Ballard, K. J. Barton, B. J. Karl, G. H. Rau, C. A. Ribic and P. R. Wilson, Spatial and temporal variation of diet within a presumed metapopulation of Adélie Penguins, 95
- The Adélie Penguin: bellwether of climate change, reviewed by G. L. Kooyman, 835
- alarm calls, 756
- Albatross, Atlantic Yellow-nosed, 439
- alcids, 145
- Alisauskas, R. T., *see* Kellett, D. K., 373
- allelic absence test, 580
- Alvarez Alonso, J., and B. M. Whitney, New distributional records of birds from white-sand forests of the northern Peruvian Amazon, with implications for biogeography of northern South America, 552
- Amazona ventralis*, 198
- Amazonia, 552
- aminopeptidase-N, 830
- Andersen, D. E., *see* Boal, C. L., 811
- see* Perry, E. F., 756
- Antarctic, 95
- Anthony, R. G., *see* Kelly, E. G., 45
- antibiotic resistance, 358
- antiparasite adaptations, 719
- Aphelocoma coerulescens*, 515
- Aquila chrysaetos*, 538
 - heliaca*, 538
 - nipalensis*, 219, 538
- Araujo, L. S., *see* Mahler, B., 258
- Archilochus colubris*, 54
- Arizona, southeastern, 484
- Artemisia*, 611
- assignment tests, 771
- asymmetric gene flow, 580
- at-sea densities, 145
- Atudorei, V. N., *see* Meehan, T. D., 567
- avian abundance, 179
 - diversity, 179
- Aythya affinis*, 336

B

- bacteria, 453
 - cloacal, 358
- Ballard, G., G. R. Geupel, N. Nur and T. Gardali, Long-term declines and decadal patterns in population trends of songbirds in western North America, 1979-1999, 737
- see* Ainley, D. G., 95

- Ballentine, B., and G. E. Hill, Female mate choice in relation to structural plumage coloration in Blue Grosbeaks, 593
- Bananaquit, 821
- Bart, J., B. Collins and R. I. G. Morrison, Estimating population trends with a linear model, 367
- Barton, K. J., *see* Ainley, D. G., 95
- basal metabolic rate (BMR), 420
- Batt, B. D. J., *see* Scribner, K. T., 771
- Becker, C. D., *see* Parker, T. H., 663
- Bednarz, J. C., *see* Bollmer, J. L., 428
- behavior, 107, 316, 515
- behavioral thermoregulation, 268
- Belthoff, J. R., *see* Burnham, W., 327
- see* Egbert, J. R., 825
- Bensch, S., *see* Lillandt, B.-G., 505
- Bermingham, E., *see* González, M. A., 228
- Bielefeldt, J., *see* Meehan, T. D., 567
- bill size, 139
- biogeography, 552
- birds
 - fossil, 150
 - habitat relationships, 117
 - juvenile, 279
 - omnivorous, 135
 - populations, 367
 - prehistoric, 572
 - soaring, 208
 - wild, 358
- Blackbird, Red-winged, 453
- blackbirds, 239
- blackwater, 552
- Bleiweiss, R., *see* Hendrickson, S. L., 1
- Boal, C. L., D. E. Andersen and P. L. Kennedy, Home range and residency status of Northern Goshawks breeding in Minnesota, 811
- body condition, 465
 - size, 139, 336, 428
- Bollmer, J. L., T. Sanchez, M. D. Cannon, D. Sanchez, B. Cannon, J. C. Bednarz, T. de Vries, M. S. Struve and P. G. Parker, Variation in morphology and mating system among island populations of Galápagos Hawks, 428
- Booms, T. L., and M. R. Fuller, Gyrfalcon diet in central west Greenland during the nesting period, 528
- boreal forest, 27
- Bowman, R., *see* Fleischer, A. L., Jr., 515
- Bozek, M. A., *see* Meehan, T. D., 567
- Bragin, E. A., *see* Katzner, T. E., 538
- Branta canadensis*, 771
- Brazil, 358
- breeding, 13
 - density, 145, 316, 599
 - dispersal, 73
 - season, 683
 - success, 63

- Briskie, J. V., Frequency of egg rejection by potential hosts of the New Zealand Cuckoos, 719
 brood parasitism, 63, 719, 728
 Brown, C. R., Birds of Nebraska: their distribution and temporal occurrence, by Roger S. Sharpe, W. Ross Silcock, and Joel G. Jorgensen (book review), 608
 Brown, J. S., *see* Oyugi, J. O., 130
 Buitron, D., *see* Nuechterlein, G. L., 80
 Burger, J., *see* Schreiber, E. A., 392
 Burnham, W., C. Sandfort and J. R. Belthoff, Peregrine Falcon eggs: egg size, hatchling sex, and clutch sex ratios 327
Buteo galapagoensis, 428

C

- Calcarius ornatus*, 154
Calidris alba, 465
 mauri, 13
 calorimetry, indirect, 420
 camera, 528
 Camfield, A. F., Quality of food source affects female visitation and display rates of male Broad-tailed Hummingbirds, 603
 Canada, 420
 Cannon, B., *see* Bollmer, J. L., 428
 Cannon, M. D., *see* Bollmer, J. L., 428
 Canvasback, 791
 Cardinal, Northern, 587
Cardinalis cardinalis, 587
 carotenoid pigments, 258, 587
Carpodacus mexicanus, 825
 Carroll, J. P., *see* Papeschi, A., 362
 Catbird, Gray, 496
 Cathartidae, 1
 Central Valley, 791
 Charadrii, 117
Charadrius, 378
 montanus, 654
 Chartone-Souza, E., *see* Nascimento, A. M. A., 358
 Chiapas, 572
 chick mass, 327
Chrysococcyx lucidus, 719
Ciconia, 150
 Cimprich, D. A., *see* Stake, M. M., 348
Cinclodes, 830
 Clark, R. G., *see* Rotella, J. J., 336
 climate regime, 737
Coereba flaveola, 821
 Collazo, J. A., T. H. White Jr., F. J. Villella and S. A. Guerrero, Survival of captive-reared Hispaniolan Parrots released in Parque Nacional del Este, Dominican Republic, 198
 see Dinsmore, S. J., 465
 Collins, B., *see* Bart, J., 367
 coloniality, 80
 colony choice, 95
 Colorado, 327, 654
 Columbidae, 258
 Columbiformes, 696
 Colwell, M. A., *see* Danufsky, T., 117
 communication, short-range, 139
 community, 27
 competition, 45

- Complex Alternate Strategy, 635
 Complex Basic Strategy, 635
 Condor, Andean, 1
 conservation, 387, 439, 611
 control region, 1
 Cooper, J., *see* Cuthbert, R., 439
 cooperative polyandry, 428
 Corben, C., *see* Howell, S. N. G., 635
 corticosterone, 13, 696
 corvids, 139
 cost of reproduction, 336
 Couzi, F.-X., *see* Le Corre, M., 387
 Cowbird, Screaming, 63
 Shiny, 63, 728
 created wetland, 303
 Cristol, D. A., *see* E. C. Snell-Rood, 303
 Cuba, 150
 Cuckoo, Long-tailed, 719
 Shining, 719
 Cursino, L., *see* Nascimento, A. M. A., 358
 Cuthbert, R., P. G. Ryan, J. Cooper and G. Hilton, Demography and population trends of the Atlantic Yellow-nosed Albatross, 439

D

- Danufsky, T., and M. A. Colwell, Winter shorebird communities and tidal flat characteristics at Humboldt Bay, California, 117
 Davidson, C. L., *see* Weathers, W. W., 707
 de Matheus, L. S., *see* Hendrickson, S. L., 1
 de Vries, T., *see* Bollmer, J. L., 428
 Deeming, D. C. [ed.], Avian incubation: behaviour, environment, and evolution, reviewed by K. W. Sockman, 164
 delayed dispersal, 505
 demography, 439
 Dessi-Fulgheri, F., *see* Nascimento, A. M. A., 362
 developmental stability, 599
 dichromatism, 258
 Dickcissel, 805
 Dickson, M. R., The Lost World of the Moa, by Trevor H. Worthey and Richard N. Holdaway (book review), 834
 diet, 107, 528
 quality, 95
 variation, 95
 digestion, 830
 Dinsmore, S. J., and J. A. Collazo, The influence of body condition on local apparent survival of spring migrant Sanderlings in coastal North Carolina, 465
 disaccharidases, 830
 display rates, 603
 distance sampling, 654
 distribution, 45, 145
 distributional shifts, 572
 Dobkin, D. S., *see* Knick, S. T., 611
 Dominican Republic, 179, 198
 Doughty, R., and R. Fergus, The Purple Martin, reviewed by B. J. M. Stutchbury, 393
 Doughty, R. W., Birds of the Texas hill country, by Mark W. Lockwood (book review), 395
 doves, 258

- Dubois, N. S., and T. Getty, Empty nests do not affect female mate choice or maternal investment in House Wrens, 382
duetting, 672
Dumetella carolinensis, 496
Dunn, P. O., see Poirier, N. E., 816
duration, 135

E

- Eagle, Steppe, 219
Eberhard, J. R., see González, M. A., 228
Ecuador, 135
edge effects, 288
Edge, W. D., see Hennings, L. A., 288
Egbert, J. R., and J. R. Belthoff, Wing shape in House Finches differs relative to migratory habit in eastern and western North America, 825
egg removal, 382
size variation, 327
Eider, King, 373
elevational gradients, 179
Empidonax minimus, 756
empty nests, 382
endemic petrel, 387
energetics, 707
Eremophila alpestris, 158
Erickson, R. A., and S. N. G. Howell [eds.], Birds of the Baja California peninsula: status, distribution, and taxonomy, reviewed by W. T. Everett, 393
Estes, W. A., and R. W. Mannan, Feeding behavior of Cooper's Hawks at urban and rural nests in southeastern Arizona, 107
Eudynamis taitensis, 719
Everett, W. T., Birds of the Baja California peninsula: status, distribution, and taxonomy, edited by Richard A. Erickson and Steve N. G. Howell (book review) 393
extra-pair copulations, 453

F

- Falco peregrinus anatum*, 327
rusticolus, 528
Falcon, Peregrine, 327
family structure, 505
fat, 13
deposition, 496
fecal glucocorticoids, 805
feces, 696
female choice, 593
visitation, 603
Fergus, R., see Doughty, R., 393
Fernandez, G. J., see Mermoz, M. E., 63
Fernández-Juricic, E., A. Sallent, R. Sanz and I. Rodríguez-Prieto, Testing the risk-disturbance hypothesis in a fragmented landscape: nonlinear responses of House Sparrows to humans, 316
Finch, House, 825
fire ants, 348
Fleischer, A. L., Jr., R. Bowman and G. E. Woolfenden, Variation in foraging behavior, diet, and time of breeding of Florida Scrub-Jays in suburban and wildland habitats, 515
Fleischer, R. C., Extinct birds, second edition, by Erroll Fuller (book review), 166

- Flycatcher, Least, 756
food availability, 783
habits, 528
quality, 603
foraging, 279, 515
behavior, 135
ecology, 268
efficiency, 496
theory, 130
forest fragmentation, 73
forested wetland, 303
formative plumages, 635
Forsman, E. D., see Kelly, E. G., 45
fossil birds, 150
frequency, 135
Fuller, E., Extinct birds, second edition, reviewed by R. C. Fleischer, 166
Fuller, M. R., see Booms, T. L., 528

G

- Gardali, T., see Ballard, G., 737
generic classification, 239
genetic distance, 580
Genovart, M., D. Oro, X. Ruiz, R. Griffiths, P. Monaghan and R. G. Nager, Seasonal changes in brood sex composition in Audouin's Gulls, 783
Getty, T., see Dubois, N. S., 382
Geupel, G. R., see Ballard, G., 737
Ghestemme, T., see Le Corre, M., 387
Gipson, P. S., see Parker, T. H., 663
giving-up density, 130
gonad cycles, 683
Gonçalves-Dornelas, H., see Nascimento, A. M. A., 358
González, M. A., J. R. Eberhard, I. J. Lovette, S. L. Olson, and E. Bermingham, Mitochondrial DNA phylogeography of the Bay Wren (Troglodytidae: *Thryothorus nigricapillus*) complex, 228
Gonzalez, S. P., see Sabat, P., 830
Goose, Canada, 771
Goshawk, Northern, 811
Great Basin, 791
Grebe, Red-necked, 80
Greenland, 528
Grenada, 821
Grieco, F., Greater food availability reduces tarsus asymmetry in nestling Blue Tits, 599
Griffiths, R., see Genovart, M., 783
Grosbeak, Blue, 593
growth, 707
Gudmundsson, G. A., see Lilliendahl, K. J., 145
Guerrero, S. A., see Collazo, J. A., 198
Guianas, 552
Gull, Audouin's, 783
Gyr Falcon, 528

H

- habitat change, 737
characteristics, 117
preference, 130, 756
restoration, 303
use, 538
Haliaeetus albicilla, 538

- Hartman, C. A., and L. W. Oring, Orientation and microclimate of Horned Lark nests: the importance of shade, 158
- Hau, M., *see* Wikelski, M., 683
- Hawk, Galápagos, 428
- hawks, 474
- Heise, C. D., and F. R. Moore, Age-related differences in foraging efficiency, molt, and fat deposition of Gray Catbirds prior to autumn migration, 496
- Hendrickson, S. L., R. Bleiweiss, J. C. Matheus, L. S. de Matheus, N. L. Jácome and E. Pavez, Low genetic variability in the geographically widespread Andean Condor, 1
- Hennings, L. A., and W. D. Edge, Riparian bird community structure in Portland, Oregon: habitat, urbanization, and spatial scale patterns, 288
- Hill, G. E., A red bird in a brown bag: the function and evolution of colorful plumage in the House Finch, reviewed by Patrick J. Weatherhead, 607
see Ballentine, B., 593
see McGraw, K. J., 587
- Hilton, B. H., Jr., and M. W. Miller, Annual survival and recruitment in a Ruby-throated Hummingbird population, excluding the effect of transient individuals, 54
- Hilton, G., *see* Cuthbert, R., 439
- Hispaniola, 179
- Hoffman, S. W., and J. P. Smith, Population trends of migratory raptors in western North America, 397
- Holdaway, R. N., *see* Worthy, T. H., 834
- home range, 811
- hormones, 683
- host specialization, 63
- Howell, S. N. G., C. Corben, P. Pyle and D. I. Rogers, The first basic problem: a review of molt and plumage homologies, 635
see Erickson, R. A., 393
- Hubbard, M. W., *see* Suedkamp Wells, K. M., 805
- Hughes, C. R., *see* Nuechterlein, G. L., 80
- human disturbance, 316
- exploitation, 572
- wildlife interactions, 316
- Humboldt Bay, 117
- Hummingbird, Broad-tailed, 603
- Ruby-throated, 54
- hummingbirds, 484
- hunting behavior, 474
- Hupton, G., S. Portocarrero, M. Newman and D. E. Westneat, Bacteria in the reproductive tracts of Red-winged Blackbirds, 453

I

- Icteridae, 239
- independence, 279
- Indian Ocean, 387
- Inman, R. L., *see* Scribner, K. T., 771
- intertidal habitats, 117
- intrasexual selection, 362
- intraspecific variability, 80, 825
- island nesting, 373
- Israel, 208

J

- Jácome, N. L., *see* Hendrickson, S. L., 1
- Jay, Siberian, 505
- Johnsgard, P. A., North American Owls: biology and natural history, second edition, reviewed by J. S. Marks, 836
- Jones, S. B., *see* Washburn, B. E., 696
- Jorgensen, J. G., *see* Sharpe, R. S., 608

K

- Karl, B. J., *see* Ainley, D. G., 95
- Katzner, T. E., E. A. Bragin, S. T. Knick and A. T. Smith, Coexistence in a multispecies assemblage of eagles in Central Asia, 538
- Kazakhstan, 538
- Kellett, D. K., R. T. Alisauskas and K. R. Mehl, Nest-site selection, interspecific associations, and nest success of King Eiders, 373
- Kelly, E. G., E. D. Forsman and R. G. Anthony, Are Barred Owls displacing Spotted Owls?, 45
- Kennedy, P. L., *see* Boal, C. L., 811
- Klaassen, M., *see* Lindström, Å., 420
- Knick, S. T., D. S. Dobkin, J. T. Rotenberry, M. A. Schroeder, W. M. Vander Haegen and C. van Riper III, Teetering on the edge or too late? Conservation and research issues for the avifauna of sagebrush habitats, 611
see Katzner, T. E., 538
- Knopf, F. L., *see* Wunder, M. B., 654
- Kooyman, G. L., The Adélie Penguin: Bellwether of Climate Change, by David G. Ainley (book review), 835
- Krijgsveld, K. L., J. W. H. Reneerkens, G. D. McNett and R. E. Ricklefs, Time budgets and body temperatures of American Golden-Plover chicks in relation to ambient temperature, 268
- Kruse, K. L., J. R. Lovvorn, J. Y. Takekawa and J. Mackay, Winter distribution and survival of a high-desert breeding population of Canvasbacks, 791

L

- Laiolo, P., and A. Rolando, Comparative analysis of the rattle calls in *Corvus* and *Nucifraga*: the effect of body size, bill size, and phylogeny, 139
- land use, 611
- landscape change, 611
- Lark, Horned, 158
- Larus audouinii*, 783
- Latour, P. B., *see* Machtans, C. S., 27
- Latta, S. C., C. C. Rimmer and K. P. McFarland, Winter bird communities in four habitats along an elevational gradient on Hispaniola, 179
- Le Corre, M., T. Ghestemme, M. Salamolard and F.-X. Couzi, Rescue of the Mascarene Petrel, a critically endangered seabird of Réunion Island, Indian Ocean, 387
- Leshem, Y., *see* Shamoun-Baranes, J., 208
- Libants, S., *see* Scribner, K. T., 771
- Liechti, O., *see* Shamoun-Baranes, J., 208
- light-induced disturbance, 387
- Lilland, B.-G., S. Bensch and T. von Schantz, Family structure in the Siberian Jay as revealed by microsatellite analyses, 505

- Lilliendahl, K., J. Solmundsson, G. A. Gudmundsson and L. Taylor, Can surveillance radar be used to monitor the foraging distribution of colonialy breeding alcids?, 145
 Lima, S. L., see Roth, T. C., II, 474
 Lindström, A., and M. Klaassen, High basal metabolic rates of shorebirds while in the Arctic: a circumpolar view, 420
 Lockwood, M. W., Birds of the Texas hill country, reviewed by R. W. Doughty, 395
 longline mortality, 439
 Lovette, I. J., see González, M. A., 228
 Lovvorn, J. R., see Kruse, K., 791
 Lynn, S. E., and J. C. Wingfield, Male Chestnut-colored Longspurs are essential for nestling survival: a removal study, 154

M

- MacColl, A. D. C., and I. R. Stevenson, Stasis in the morph ratio cline in the Bananaquit on Grenada, West Indies, 821
 Machtans, C. S., and P. B. Latour, Boreal forest songbird communities of the Liard Valley, Northwest Territories, Canada, 27
 Mackay, J., see Kruse, K., 791
 Mahler, B. L. S. Araujo and P. L. Tubaro, Dietary and sexual correlates of carotenoid pigment expression in dove plumage, 258
 male ornaments, 362
 rank, 362
 removal, 154
 Malecki, R. A., see Scribner, K. T., 771
 Mann, N. I., L. Marshall-Ball and P. J. Slater, The complex song duet of the Plain Wren, 672
 Mannan, R. W., see Estes, W. A., 107
 Marini, M. A., see Nascimento, A. M. A., 358
 mark-recapture, 54
 Marks, J. S., North American Owls: Biology and Natural History, Second Edition, by Paul A. Johnsgard (book review), 836
 Marshall-Ball, L., see Mann, N. I., 672
 Marshbird, Brown-and-yellow, 63
 mate choice, 382
 switching, 816
 Matheus, J. C., see Hendrickson, S. L., I
 McDonald, D. B., Microsatellite DNA evidence for gene flow in Neotropical lek-mating Long-tailed Manakins, 580
 McFarland, K. P., see Latta, S. C., 179
 McGraw, K. J., G. E. Hill and R. S. Parker, Carotenoid pigments in a mutant cardinal: implications for the genetic and enzymatic control mechanisms of carotenoid metabolism in birds, 587
 McNett, G. D., see Krijgsveld, K. L., 268
 Meehan, T. D., R. N. Rosenfield, V. N. Atudorei, J. Bielefeldt, L. J. Rosenfield, A. C. Stewart, W. E. Stout and M. A. Bozek, Variation in hydrogen stable-isotope ratios between adult and nestling Cooper's Hawks, 567
 Mehl, K. R., see Kellett, D. K., 373
 Mermoz, M. E., and G. J. Fernandez, Breeding success of a specialist brood parasite, the Screaming Cowbird, parasitizing an alternative host, 63
 metabolism, 587
 Mexico, 572
 Meyburg, B.-U., P. Paillat and C. Meyburg, Migration routes of Steppe Eagles between Asia and Africa: a study by means of satellite telemetry, 219
 Meyburg, C., see Meyburg, B.-U., 219
 microclimate, 158
 microorganisms, 453
 microsatellites, 505, 580, 771
 migration, 13, 208, 219, 420, 484, 567
 counts, 397
 fall, 737
 monitoring, 737
 partial, 825
 Miller, M. W., see Hilton, B. H., Jr., 54
 Millsaugh, J. J., see Suedkamp Wells, K. M., 805
 see Washburn, B. E., 696
Mimus saturninus, 728
 Minnesota, 811
 mitochondria, 1
 mixedwood, 27
 Mockingbird, Chalk-browed, 728
Molothrus bonariensis, 728
 molt, 496, 567
 terminology, 635
 Monaghan, P., see Genovart, M., 783
 Mong, T., see Washburn, B. E., 696
 monitoring, 367
 monogamy, 154
 Moore, F. R., see Heise, C. D., 496
 morphology, 825
 Morrison, R. I. G., see Bart, J., 367
 Morton, M. L., see Weathers, W. W., 707
 movement, 198
 mtDNA, 771
 multiple mating, 453
 mutation, 587
Mycteria, 150

N

- Nager, R. G., see Genovart, M., 783
 Naoki, K., The relative importance of arthropods and fruits in foraging behavior of omnivorous tanagers (Thraupidae): the comparison of three methods, 135
 Nascimento, A. M. A., L. Cursino, H. Gonçalves-Dornelas, A. Reis, E. Chartone-Souza and M. A. Marini, Antibiotic-resistant Gram-negative bacteria in birds from the Brazilian Atlantic forest, 358
Neopelma chrysocephalum, 552
 Neotropical migrant, 288
 migratory birds, 179
 nest destruction, 382
 dispersion, 80
 entrance, 158
 orientation, 158
 predators, 348
 success, 373
 nesting, clustered, 756
 interspecific associations, 373
 nestling, 707
 New Mexico, 327
 New Zealand, 719

Newman, M., *see* Hupton, G., 453

nocturnal incubation, 378

nonbreeding distribution, 117

noninvasive, 696

nonlinearity, 316

non-native species, 288

Norris, K., and D. J. Pain, Conserving bird biodiversity: general principles and their application, reviewed by Terrell D. Rich, 608

North America, western, 397

North Carolina, 465

Northwest Territories, 27

Nuechterlein, G. L., D. Buitron, J. L. Sachs and C. R. Hughes, Red-necked Grebes become semicolonial when prime nesting substrate is available, 80

Nur, N., *see* Ballard, G., 737

nutrition, 830

O

O'Reilly, K. M., and J. C. Wingfield, Seasonal, age, and sex differences in weight, fat reserves, and plasma corticosterone in Western Sandpipers, 13

occupancy, 45

offspring retention, 505

Olson, S. L., *see* González, M. A., 228

Oporornis formosus, 663

ordination, 27

Oring, L. W., *see* Hartman, C. A., 158

Oro, D., *see* Genovart, M., 783

Ovenbirds, 73

Owl, Barred, 45

Northern Spotted, 45

Oyugi, J. O., and J. S. Brown, Giving-up densities and habitat preferences of European Starlings and American Robins, 130

P

Pacific Decadal Oscillation, 737

Pague, C. A., *see* Wunder, M. B., 654

Paillat, P., *see* Meyburg, B.-U., 219

Pain, D. J., *see* Norris, K., 608

pairing success, 663

Panama, 228, 683

Papeschi, A., J. P. Carroll and F. Dessì-Fulgheri, Wattle size is correlated with male territorial rank in juvenile Ring-necked Pheasants, 362

parental investment, 382

park design, 316

Parker, P. G., *see* Bollmer, J. L., 428

Parker, R. S., *see* McGraw, K. J., 587

Parker, T. H., B. M. Stansberry, C. D. Becker and P. S. Gipson, Do melanin- or carotenoid-pigmented plumage ornaments signal condition and predict pairing success in the Kentucky Warbler?, 663

Parrot, Hispaniolan, 198

Parus caeruleus, 599

Passerculus sandwichensis, 279

Passerina caerulea, 593

passerines, 805

patch use, 130

paternal care, 154

paternity, 816

Pavez, E., *see* Hendrickson, S. L., 1

Penguin, Adélie, 95

Perisoreus infaustus, 505

Perry, E. E., and D. E. Andersen, Advantages of clustered nesting for Least Flycatchers in north-central Minnesota, 756

Peru, 552

Phasianus colchicus, 362

Pheasant, Ring-necked, 362

phylogeny, 139, 228

phylogeography, 228

physiological adaptation, 420

physiology, 696

Plover, Common Ringed, 378

Mountain, 654

plumage, 228

color, 258

polymorphism, 821

succession, 635

Pluvialis dominica, 268

Podiceps grisegena, 80

Poirier, N. E., L. A. Whittingham and P. O. Dunn, Effects of paternity and mate availability on mate switching in House Wrens, 816

population estimation, 654

growth, 54

monitoring, 367

trend, 397, 737

Pomeluzi, P. A., Prior breeding success affects return rates of territorial Ovenbirds, 73

Portocarrero, S., *see* Hupton, G., 453

postfledging, 279

precocial, 268

predation risk, 130

predator deterrence, 756

-prey interactions, 474

preimaginary behavior, 496

prey delivery, 107

Prince, H. H., *see* Scribner, K. T., 771

principal components analysis, 428

priority research issues, 611

Pseudobulweria, 387

Pygoscelis adeliae, 95

Pyle, P., *see* Howell, S. N. G., 635

Q

Quaternary, 150

Queen Maud Gulf Bird Sanctuary, 373

R

radar, 145

radioimmunoassay, 696

rainfall, 821

rainforest, 683

range expansion, 771

raptors, 397, 567

rat snake, 348

Rau, G. H., *see* Ainley, D. G., 95

Reboreda, J. C., *see* Sackmann, P., 728

recreation, 316

recruitment, 54

reflectance spectra, 663

Reis, A., *see* Nascimento, A. M. A., 358

release program, 198

Reneerkens, J. W. H., *see* Krijgsveld, K. L., 268

reproductive effort, 336
 success, 73, 816
 return rate, 73
 Réunion, 387
 Ribic, C. A., *see* Ainley, D. G., 95
 Rich, T. D., Conserving bird biodiversity: general principles and their application, edited by Ken Norris and Deborah J. Pain (book review), 608
 Ricklefs, R. E., *see* Krijgsveld, K. L., 268
 Rimmer, C. C., *see* Latta, S. C., 179
 riparian, 288
 Robin, American, 130
 Robinson, W. D., *see* Wikelski, M., 683
 Rodríguez-Prieto, I., *see* Fernández-Juricic, E., 316
 Rogers, D. I., *see* Howell, S. N. G., 635
 Rolando, A., *see* Laiolo, P., 139
 Rosenfield, L. J., *see* Meehan, T. D., 567
 Rosenfield, R. N., *see* Meehan, T. D., 567
 Rotella, J. J., R. G. Clark and A. D. Afton, Survival of female Lesser Scaup: effects of body size, age, and reproductive effort, 336
 Rotenberry, J. T., *see* Knick, S. T., 611
 Roth, T. C., II, and S. L. Lima, Hunting behavior and diet of Cooper's Hawks: an urban view of the small-bird-in-winter paradigm, 474
 Ruby Lake, 791
 Ruiz, X., *see* Genovart, M., 783
 Russell, S. M., *see* Wethington, S. M., 484
 Ryan, M. R., *see* Suedkamp Wells, K. M., 805
 Ryan, P. G., *see* Cuthbert, R., 439

S

Sabat, P., and S. P. Gonzalez, Digestive enzymes in two species of marine cinclodes, 830
 Sachs, J. L., *see* Nuechterlein, G. L., 80
 Sackmann, P., and J. C. Rebores, A comparative study of Shiny Cowbird parasitism of two large hosts, the Chalk-browed Mockingbird and the Rufous-bellied Thrush, 728
 safety in groups, 474
 sagebrush ecosystems, 611
 Salamolard, M., *see* Le Corre, M., 387
 Sallent, A., *see* Fernández-Juricic, E., 316
 sampling, 367
 San Francisco Bay, 791
 Sanchez, D., *see* Bollmer, J. L., 428
 Sanchez, T., *see* Bollmer, J. L., 428
 Sanderling, 465
 Sandfort, C., *see* Burnham, W., 327
 Sandpiper, Western, 13
 Sanz, R., *see* Fernández-Juricic, E., 316
 satellite telemetry, 219
 Scaup, Lesser, 336
 Schreiber, E. A., and J. Burger [eds.], Biology of marine birds, reviewed by W. J. Sydeman, 392
 Schroeder, M. A., *see* Knick, S. T., 611
 Schulz, J. H., *see* Washburn, B. E., 696
 Scribner, K. T., R. A. Malecki, B. D. J. Batt, R. L. Inman, S. Libants and H. H. Prince, Identification of source population for Greenland Canada Geese: genetic assessment of a recent colonization, 771
 seabird, 387
 seasonal change, 783

distributions, 484
 seasonality, 683
Seiurus aurocapillus, 73
Selasphorus platycercus, 603
 sex ratio, 783
 clutch, 327
 sex roles, 378
 sexual selection, 258, 580
 size dimorphism, 428
 sexually transmitted diseases, 453
 shade, 158
 Shamoun-Baranes, J., Y. Leshem, Y. Yom-Tov and O. Liechti, Differential use of thermal convection by soaring birds over central Israel, 208
 Sharpe, R. S., W. R. Silcock and J. G. Jorgensen, Birds of Nebraska: their distribution and temporal occurrence, reviewed by Charles R. Brown, 608
 shorebirds, 117, 268, 378, 465
 shrubland loss, 611
 Silcock, W. R., *see* Sharpe, R. S., 608
 Simple Alternate Strategy, 635
 Simple Basic Strategy, 635
 single-locus cline, 821
 size-selective mortality, 336
 skeletons, 239
 Slater, P. J., *see* Mann, N. I., 672
 Smith, A. T., *see* Katzner, T. E., 538
 Smith, J. P., *see* Hoffman, S. W., 397
 Snell-Rood, E. C., and D. A. Cristol, Avian communities of created and natural wetlands: bottomland forests in Virginia, 303
 Sockman, K. W., Avian incubation: behaviour, environment, and evolution, edited by D. C. Deeming (book review), 164
 solar radiation, 158
 Solmundsson, J., *see* Lilliendahl, K. J., 145
Somateria spectabilis, 373
 song, 672
 songbird, 27
 declines, 737
 South Park, 654
 spacing, 80
 Sparrow, Savannah, 279
 White-crowned, 707
 spatial scale, 288
 speciation, 228, 580
 species coexistence, 538
 richness, 179
Spiza americana, 805
 stable isotope, 95
 Stake, M. M., and D. A. Cimprich, Using video to monitor predation at Black-capped Vireo nests, 348
 Stansberry, B. M., *see* Parker, T. H., 663
 Starling, European, 130
 statistical methods, 367
 status review, 397
 Steadman, D. W., M. P. Tellkamp and T. A. Wake, Prehistoric exploitation of birds on the Pacific Coast of Chiapas, Mexico, 572
 Stevenson, I. R., *see* MacColl, A. D. C., 821
 Stewart, A. C., *see* Meehan, T. D., 567
 storks, 150
 Stout, W. E., *see* Meehan, T. D., 567

- stress, 13, 696, 805
Strix occidentalis caurina, 45
 varia, 45
 structural color, 593
 Struve, M. S., *see* Bollmer, J. L., 428
 Stutchbury, B. J. M., The Purple Martin, by Robin Doughty and Rob Fergus (book review), 393
 Suárez, W., and S. L. Olson, New records of storks (Ciconiidae) from Quaternary asphalt deposits in Cuba, 150
 suburban, 515
 succession, 27
 Suedkamp Wells, K. M., B. E. Washburn, J. J. Mills-paugh, M. R. Ryan and M. W. Hubbard, Effects of radio-transmitters on fecal glucocorticoid levels in captive Dickcissels, 805
 supplemental feeding experiment, 599
 food, 515
 survival, 54, 198, 336, 439, 465
 analysis, 791
 Sydeman, W. J., Biology of marine birds, edited by E. A. Schreiber and Joanna Burger (book review), 392
 symmetry, 599

T

- Takekawa, J. Y., *see* Kruse, K., 791
Tangara, 135
 Taylor, L., *see* Lilliendahl, K. J., 145
 telemetry, 198, 268
 Tellkamp, M. P., *see* Steadman, D. W., 572
 Templeton, J. J., *see* Wheelwright, N. T., 279
 temporal changes, 145
 territoriality, 80, 362
 testosterone, 154
Thalassarche chlororhynchos, 439
 thermal convection, 208
 Thrush, Rufous-bellied, 728
Thryothorus, 672
 nigricapillus, 228
 time budget, 268
 -lapse video, 528
 timing of breeding, 515
 transients, 54
 transmitter, 805
 trend estimation, 367
 trichomoniasis, 107
Troglodytes aedon, 382, 816
 tropical, 683
 Tubaro, P. L., *see* Mahler, B., 258
Turdus rufiventris, 728

U

- urban, 288
 environment, 474
 wildlife, 107

V

- van Riper, C., III, *see* Knick, S. T., 611
 Vander Haegen, W. M., *see* Knick, S. T., 611
 videocamera, 348
 Villella, F. J., *see* Collazo, J. A., 198

- Vireo atricapillus*, 348
Vireo, Black-capped, 348
 vocalizations, 107, 139
 von Schantz, T., *see* Lilland, B.-G., 505
Vultur gryphus, 1

W

- waders, 378
 Wake, T. A., *see* Steadman, D. W., 572
 Wallander, J., Sex roles during incubation in the Common Ringed Plover, 378
 Washburn, B. E., J. J. Mills-paugh, J. H. Schulz, S. B. Jones and T. Mong, Using fecal glucocorticoids for stress assessment in Mourning Doves, 696
 Washburn, B. E., *see* Suedkamp Wells, K. M., 805
 Weatherhead, P. J., A red bird in a brown bag: the function and evolution of colorful plumage in the House Finch, by Geoffrey E. Hill (book review), 607
 Weathers, W. W., C. L. Davidson and M. L. Morton, Energetics of altricial nestlings in cold climates: insights from the Mountain White-crowned Sparrow, 707
 Webster, J. D., Skeletal characters and the genera of blackbirds (Icteridae), 239
 Westneat, D. F., *see* Hupson, G., 453
 Wethington, S. M., and S. M. Russell, The seasonal distribution and abundance of hummingbirds in oak woodland and riparian communities in southeastern Arizona, 484
 wetland construction, 303
 Wheelwright, N. T., and J. J. Templeton, Development of foraging skills and the transition to independence in juvenile Savannah Sparrows, 279
 white sand, 552
 White, T. H., Jr., *see* Collazo, J. A., 198
 Whitney, B. M., *see* Alvarez Alonso, J., 552
 Whittingham, L. A., *see* Poirier, N. E., 816
 Wikelski, M., M. Hau, W. D. Robinson and J. C. Wingfield, Reproductive seasonality of seven Neotropical passerine species, 683
 Wilson, P. R., *see* Ainley, D. G., 95
 wing shape, 825
 Wingfield, J. C., *see* Lynn, S. E., 154
 see O'Reilly, K. M., 13
 see Wikelski, M., 683
 winter distribution, 791
 residency, 811
 wintering birds, 474
 sites, 219
 Woolfenden, G. E., *see* Fleischer, A. L., Jr., 515
 Worth, T. H., and R. N. Holdaway, The lost world of the moa, reviewed by M. R. Dickison, 834
 Wren, Bay, 228
 House, 382, 816
 Plain, 672
 Wunder, M. B., F. L. Knopf and C. A. Pague, The high-elevation population of Mountain Plovers, 654

XYZ

- Yom-Tov, Y., *see* Shamoun-Baranes, J., 208
Zonotrichia leucophrys oriantha, 707

